



# Digital Wetlands Data

## *Interagency Cooperation*

### Shared Agency Interests

The U.S. Fish and Wildlife Service (the Service) is the principal Federal agency that provides information to the public on the extent and status of the Nation's wetlands. The Service is often asked to provide scientific information on wetlands to other Federal agencies, industry and the public. These types of analyses rely on digital map information to provide fast, efficient and scientifically sound mechanisms for resolving resource management issues.

The U.S. Geological Survey (USGS) Water Resources Discipline provides reliable, impartial, timely information needed to understand the water resources of the United States. The USGS maintains expertise in technical areas of digital cartography, computer assisted mapping, geographic information systems and publications.

Through an active partnership, both the Service and the USGS are actively engaged in the system design and implementation of new tools and techniques to create, analyze and store wetlands map data. This partnership has yielded benefits to both agencies. The two agencies have entered into a multiyear interagency agreement to redesign and improve wetlands mapping capabilities.

### The Wetlands Master Geodatabase

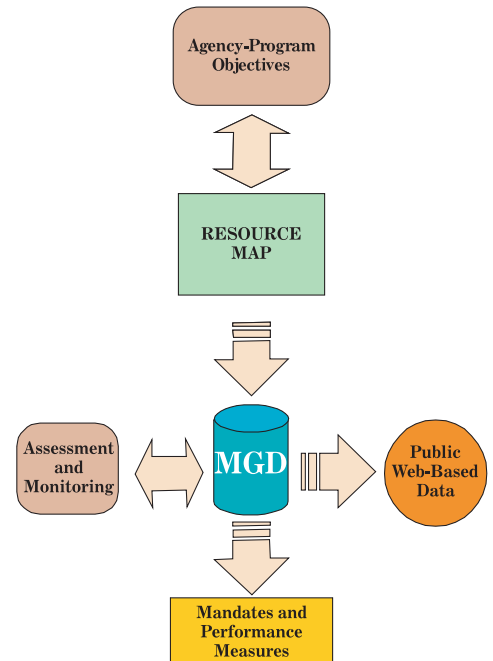
The concept for a comprehensive Wetlands Master Geodatabase (MGD) stems from past successes in producing and distributing wetlands maps and wetlands status and trends information. With the advent of computer technologies that now allow the integration of large relational databases with spatial information and display, the MGD provides the Service an opportunity to capitalize on years of data collection effort by developing

scientifically sound, technologically relevant tools for data analysis, distribution, archiving and updating aquatic resource information.

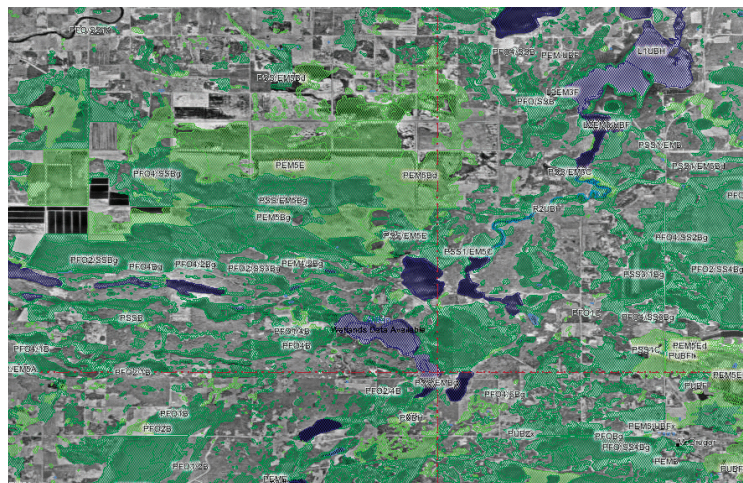
The creation of a Master Geodatabase for the national wetland dataset was an ambitious and very involved undertaking. The MGD provides a standardized map updating process, the creation of a wetlands relational database with temporal version capability, the incorporation of nondigital data, and a truly seamless data-storage and retrieval system. By implementing modern database technology, the MGD permits client-server database access with greatly improved interface to the Service users as well as the public. These improved capabilities combined with enhanced access help the Service realize the objectives of providing scientifically based applications for wetlands and water resource data.

### Web-Based Tools for the Nation

The development of the **Wetlands Mapper** stems from the Service's need to expand and improve the availability of digital wetlands data. The Service's strategic plan for digital wetland



data is focused on the development, updating, and dissemination of wetlands data and information to Service resource managers and the public. The **Wetlands Mapper** responds to the need to integrate digital map data with other resource information to produce timely and



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relevant management and decision support tools.

The **Wetlands Mapper** is designed to promote greater awareness of wetlands map data applications and deliver easy-to-use, maplike views of America's wetland resources in a digital format. It has been developed in collaboration with the USGS. This Federal partnership has yielded tremendous benefits in ongoing efforts to configure, improve and distribute the wetlands map information using newer technologies in computerized mapping and web-serving capabilities.

### Geography and The National Map

Governments depend on base geographic information that describes the Earth's surface and locates features. They use this information for economic and community planning, land and natural resource management, education and delivery of public services. It is also the foundation for studying and solving geographically based natural resource issues. Geographic information underpins an increasingly large part of the Nation's economy.

The USGS is developing *The National Map* as a seamless, continuously maintained and nationally consistent set of online, public domain, geographic base information. *The National Map* is designed as a network of digital databases that will provide a consistent geographic data framework for the country. This base geographic information will be the foundation for integrating, sharing and using natural resource information such as wetlands information.

For the Service, an important goal is to improve the Internet delivery of updated digital data to keep pace with growing demand for wetland resource information and to support the Administration's Electronic Government initiatives to achieve operational efficiencies and enhance customer service. Incorporation of the digital wetlands data as part of *The National Map* and the Geospatial One-Stop has been instrumental in achieving this goal. Wetlands map information can be viewed on *The National Map* as part of the hydrography data layer at: <http://nationalmap.gov/>

### Sound Science and New Technologies

The Service's Division of Resource and Habitat Conservation and the USGS Cartography and Publishing Program (CAPP) have a close working relationship and are collaborating on a number of wetland projects and scientific reports including two national reports on wetland resources. The CAPP tests and applies emerging technologies in cartography. The CAPP also develops and maintains information databases that support the Office of Water Information and provides cartographic and geographic information systems support to the USGS and other Federal agencies.

### Additional Information

Information about the U.S. Fish and Wildlife Service is available at <http://www.fws.gov/>

Information about the U.S. Geological Survey is available at <http://www.usgs.gov/>

Information about the Fish and Wildlife Service's wetlands maps and the Wetlands Mapper is available at: <http://wetlandsfws.er.usgs.gov/wtlnds/viewer.htm>

More information about *The National Map* is available at <http://www.nationalmap.usgs.gov/>

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